

# Gregory A Voth

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

536  
papers

36,352  
citations

96  
h-index

164  
g-index

596  
ext. papers

39,725  
ext. citations

5.3  
avg. IF

7.85  
L-index

#	Paper	IF	Citations
536	Key Factors Governing Initial Stages of Lipid Droplet Formation.. <i>Journal of Physical Chemistry B</i> , <b>2022</b> , 126, 453-462	3.4	0
535	Using Machine Learning to Greatly Accelerate Path Integral Molecular Dynamics.. <i>Journal of Chemical Theory and Computation</i> , <b>2022</b> ,	6.4	4
534	Cooperative multivalent receptor binding promotes exposure of the SARS-CoV-2 fusion machinery core.. <i>Nature Communications</i> , <b>2022</b> , 13, 1002	17.4	3
533	Strain and rupture of HIV-1 capsids during uncoating.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2117781119	11.5	2
532	Preservation of HIV-1 Gag Helical Bundle Symmetry by Bevirimat Is Central to Maturation Inhibition. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 19137-19148	16.4	1
531	Resolving the Structural Debate for the Hydrated Excess Proton in Water. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 18672-18683	16.4	5
530	Molecular interactions of the M and E integral membrane proteins of SARS-CoV-2 <b>2021</b> ,		3
529	Synthesis, Characterization, and Simulation of Four-Armed Megamolecules. <i>Biomacromolecules</i> , <b>2021</b> , 22, 2363-2372	6.9	1
528	Cooperative multivalent receptor binding promotes exposure of the SARS-CoV-2 fusion machinery core <b>2021</b> ,		1
527	The hopping mechanism of the hydrated excess proton and its contribution to proton diffusion in water. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 194506	3.9	1
526	Physical Characterization of Triolein and Implications for Its Role in Lipid Droplet Biogenesis. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 6874-6888	3.4	1
525	Key computational findings reveal proton transfer as driving the functional cycle in the phosphate transporter PiPT. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
524	Structural Characterization of Protonated Water Clusters Confined in HZSM-5 Zeolites. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10203-10213	16.4	7
523	Advanced Materials for Energy-Water Systems: The Central Role of Water/Solid Interfaces in Adsorption, Reactivity, and Transport. <i>Chemical Reviews</i> , <b>2021</b> , 121, 9450-9501	68.1	9
522	A multiscale coarse-grained model of the SARS-CoV-2 virion. <i>Biophysical Journal</i> , <b>2021</b> , 120, 1097-1104	2.9	54
521	Immature HIV-1 assembles from Gag dimers leaving partial hexamers at lattice edges as potential substrates for proteolytic maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	9
520	Coarse-Grained Force Fields from the Perspective of Statistical Mechanics: Better Understanding of the Origins of a MARTINI Hangover. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 1170-1180	6.4	10

519	Molecular interactions of the M and E integral membrane proteins of SARS-CoV-2. <i>Faraday Discussions</i> , <b>2021</b> ,	3.6	5
518	Structural basis of fast- and slow-severing actin-cofilactin boundaries. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100337	5.4	3
517	A new one-site coarse-grained model for water: Bottom-up many-body projected water (BUMPer). II. Temperature transferability and structural properties at low temperature. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 044105	3.9	2
516	Lipid-Composition-Mediated Forces Can Stabilize Tubular Assemblies of I-BAR Proteins. <i>Biophysical Journal</i> , <b>2021</b> , 120, 46-54	2.9	10
515	A new one-site coarse-grained model for water: Bottom-up many-body projected water (BUMPer). I. General theory and model. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 044104	3.9	8
514	Constructing many-body dissipative particle dynamics models of fluids from bottom-up coarse-graining. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 084122	3.9	7
513	Compressive and Tensile Deformations Alter ATP Hydrolysis and Phosphate Release Rates in Actin Filaments. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 1900-1913	6.4	1
512	Modeling Protein-Lipid Interactions during Viral Assembly of SARS-CoV-2. <i>Biophysical Journal</i> , <b>2021</b> , 120, 49a	2.9	78
511	Formin Cdc12's specific actin assembly properties are tailored for cytokinesis in fission yeast. <i>Biophysical Journal</i> , <b>2021</b> , 120, 2984-2997	2.9	2
510	Using Constrained Density Functional Theory to Track Proton Transfers and to Sample Their Associated Free Energy Surface. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 5759-5765	6.4	4
509	Accurate and Transferable Reactive Molecular Dynamics Models from Constrained Density Functional Theory. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 10471-10480	3.4	3
508	Integrin-based mechanosensing through conformational deformation. <i>Biophysical Journal</i> , <b>2021</b> , 120, 4349-4359	2.9	0
507	Microtubule Simulations Provide Insight into the Molecular Mechanism Underlying Dynamic Instability. <i>Biophysical Journal</i> , <b>2020</b> , 118, 2938-2951	2.9	12
506	A helical assembly of human ESCRT-I scaffolds reverse-topology membrane scission. <i>Nature Structural and Molecular Biology</i> , <b>2020</b> , 27, 570-580	17.6	19
505	What Coordinate Best Describes the Affinity of the Hydrated Excess Proton for the Air-Water Interface?. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 5039-5046	3.4	2
504	Interfacial solvation and slow transport of hydrated excess protons in non-ionic reverse micelles. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 10753-10763	3.6	2
503	TRIM5 $\beta$ Self-assembly and compartmentalization of the HIV-1 viral capsid. <i>Nature Communications</i> , <b>2020</b> , 11, 1307	17.4	24
502	Water-Assisted Proton Transport in Confined Nanochannels. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 16186-16201	3.8	6

501	Cholesterol Alters the Orientation and Activity of the Influenza Virus M2 Amphipathic Helix in the Membrane. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 6738-6747	3.4	8
500	Reactive Coarse-Grained Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 2541-2549	6.4	9
499	Binding mechanism of the matrix domain of HIV-1 gag on lipid membranes. <i>ELife</i> , <b>2020</b> , 9,	8.9	5
498	A Multiscale Coarse-grained Model of the SARS-CoV-2 Virion <b>2020</b> ,		2
497	Temperature and Phase Transferable Bottom-up Coarse-Grained Models. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 6823-6842	6.4	15
496	Molecular Origins of the Barriers to Proton Transport in Acidic Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 8868-8876	3.4	4
495	Multiscale Simulation Reveals Passive Proton Transport Through SERCA on the Microsecond Timescale. <i>Biophysical Journal</i> , <b>2020</b> , 119, 1033-1040	2.9	5
494	Structural basis for polarized elongation of actin filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 30458-30464	11.5	6
493	Minimal Experimental Bias on the Hydrogen Bond Greatly Improves Molecular Dynamics Simulations of Water. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 5675-5684	6.4	7
492	Density Functional Theory-Based Quantum Mechanics/Coarse-Grained Molecular Mechanics: Theory and Implementation. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 6329-6342	6.4	4
491	Atomic-scale characterization of mature HIV-1 capsid stabilization by inositol hexakisphosphate (IP). <i>Science Advances</i> , <b>2020</b> , 6,	14.3	17
490	Influenza A M2 Inhibitor Binding Understood through Mechanisms of Excess Proton Stabilization and Channel Dynamics. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 17425-17433	16.4	9
489	Local conformational dynamics regulating transport properties of a Cl <sup>-</sup> /H <sup>+</sup> antiporter. <i>Journal of Computational Chemistry</i> , <b>2020</b> , 41, 513-519	3.5	3
488	Anisotropic Motions of Fibrils Dictated by Their Orientations in the Lamella: A Coarse-Grained Model of a Plant Cell Wall. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 3527-3539	3.4	6
487	Compatible observable decompositions for coarse-grained representations of real molecular systems. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 134115	3.9	6
486	Adversarial-residual-coarse-graining: Applying machine learning theory to systematic molecular coarse-graining. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 124110	3.9	11
485	Systematic Coarse-Grained Lipid Force Fields with Semiexplicit Solvation via Virtual Sites. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 2087-2100	6.4	13
484	Coarse-graining of many-body path integrals: Theory and numerical approximations. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 244103	3.9	1

483	Off-Pathway Assembly: A Broad-Spectrum Mechanism of Action for Drugs That Undermine Controlled HIV-1 Viral Capsid Formation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10214-10224	16.4	19
482	Multiscale model of integrin adhesion assembly. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007077	5	12
481	Coarse-graining involving virtual sites: Centers of symmetry coarse-graining. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 154103	3.9	9
480	Multiconfigurational Coarse-Grained Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 3306-3315	6.4	13
479	Coarse-Grained Simulation of Full-Length Integrin Activation. <i>Biophysical Journal</i> , <b>2019</b> , 116, 1000-1010	2.9	9
478	Dynamic Protonation Dramatically Affects the Membrane Permeability of Drug-like Molecules. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 13421-13433	16.4	22
477	Plastic Deformation and Fragmentation of Strained Actin Filaments. <i>Biophysical Journal</i> , <b>2019</b> , 117, 453-463	4.6	6
476	Understanding Missing Entropy in Coarse-Grained Systems: Addressing Issues of Representability and Transferability. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4549-4557	6.4	25
475	Mechanical and kinetic factors drive sorting of F-actin cross-linkers on bundles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 16192-16197	11.5	19
474	Unusual Organization of I-BAR Proteins on Tubular and Vesicular Membranes. <i>Biophysical Journal</i> , <b>2019</b> , 117, 553-562	2.9	13
473	Proton-Induced Conformational and Hydration Dynamics in the Influenza A M2 Channel. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11667-11676	16.4	12
472	Ena/VASP processive elongation is modulated by avidity on actin filaments bundled by the filopodia cross-linker fascin. <i>Molecular Biology of the Cell</i> , <b>2019</b> , 30, 851-862	3.5	20
471	Lamellipodium is a myosin-independent mechanosensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 2646-2651	11.5	46
470	Quantum mechanics/coarse-grained molecular mechanics (QM/CG-MM). <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 014102	3.9	6
469	Multiscale Kinetic Modeling Reveals an Ensemble of Cl/H Exchange Pathways in ClC-ec1 Antiporter. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 1793-1804	16.4	20
468	Quantum theory of multiscale coarse-graining. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 102335	3.9	7
467	Mechanism and Determinants of Amphipathic Helix-Containing Protein Targeting to Lipid Droplets. <i>Developmental Cell</i> , <b>2018</b> , 44, 73-86.e4	10.2	98
466	Organizing membrane-curving proteins: the emerging dynamical picture. <i>Current Opinion in Structural Biology</i> , <b>2018</b> , 51, 99-105	8.1	16

465	Ultra-Coarse-Grained Models Allow for an Accurate and Transferable Treatment of Interfacial Systems. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 2180-2197	6.4	33
464	Mesoscopic coarse-grained representations of fluids rigorously derived from atomistic models. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 044104	3.9	14
463	The 2018 biomembrane curvature and remodeling roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51,	3	133
462	Entropic forces drive clustering and spatial localization of influenza A M2 during viral budding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E8595-E8603	11.5	29
461	Molecular transport through membranes: Accurate permeability coefficients from multidimensional potentials of mean force and local diffusion constants. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 072310	3.9	26
460	Simulations of N-BAR Protein Interactions with Membranes. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 35-36	3	
459	Gating mechanisms during actin filament elongation by formins. <i>ELife</i> , <b>2018</b> , 7,	8.9	14
458	Modulating the Chemical Transport Properties of a Transmembrane Antiporter via Alternative Anion Flux. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 16535-16543	16.4	13
457	Advances in coarse-grained modeling of macromolecular complexes. <i>Current Opinion in Structural Biology</i> , <b>2018</b> , 52, 119-126	8.1	60
456	Ultra-Coarse-Grained Liquid State Models with Implicit Hydrogen Bonding. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 6159-6174	6.4	10
455	Multiscale simulation of actin filaments and actin-associated proteins. <i>Biophysical Reviews</i> , <b>2018</b> , 10, 1521-1535	3.7	4
454	Insights into the Cooperative Nature of ATP Hydrolysis in Actin Filaments. <i>Biophysical Journal</i> , <b>2018</b> , 115, 1589-1602	2.9	20
453	The Theory of Ultra-Coarse-Graining. 3. Coarse-Grained Sites with Rapid Local Equilibrium of Internal States. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 1010-1022	6.4	39
452	Highly Coarse-Grained Representations of Transmembrane Proteins. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 935-944	6.4	11
451	Communication: Improved ab initio molecular dynamics by minimally biasing with experimental data. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 041102	3.9	17
450	IR spectral assignments for the hydrated excess proton in liquid water. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 154507	3.9	52
449	Reactive molecular dynamics models from molecular dynamics data using relative entropy minimization. <i>Chemical Physics Letters</i> , <b>2017</b> , 683, 573-578	2.5	3
448	Non-uniqueness of quantum transition state theory and general dividing surfaces in the path integral space. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 174106	3.9	4

447	Friction Mediates Scission of Tubular Membranes Scaffolded by BAR Proteins. <i>Cell</i> , <b>2017</b> , 170, 172-184.e36.2	16.2	128
446	Role of solvation structure in the shuttling of the hydrated excess proton. <i>Journal of Chemical Sciences</i> , <b>2017</b> , 129, 1045-1051	1.8	3
445	Understanding the essential proton-pumping kinetic gates and decoupling mutations in cytochrome oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 5924-5929	11.5	24
444	Simulating Protein Mediated Hydrolysis of ATP and Other Nucleoside Triphosphates by Combining QM/MM Molecular Dynamics with Advances in Metadynamics. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 2332-2341	6.4	25
443	A Multiscale Description of Biomolecular Active Matter: The Chemistry Underlying Many Life Processes. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 594-598	24.3	13
442	Mechanoregulated inhibition of formin facilitates contractile actomyosin ring assembly. <i>Nature Communications</i> , <b>2017</b> , 8, 703	17.4	44
441	Phosphomimetic S3D cofilin binds but only weakly severs actin filaments. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 19565-19579	5.4	20
440	Delocalization and stretch-bend mixing of the HOH bend in liquid water. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 084503	3.9	38
439	The mesoscopic membrane with proteins (MesM-P) model. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 044103	3.9	14
438	Actin Filament Strain Promotes Severing and Cofilin Dissociation. <i>Biophysical Journal</i> , <b>2017</b> , 112, 2624-2633	6.3	30
437	Extending the range and physical accuracy of coarse-grained models: Order parameter dependent interactions. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 044113	3.9	38
436	Coarse-Grained Directed Simulation. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 4593-4603	6.4	10
435	Development of reactive force fields using ab initio molecular dynamics simulation minimally biased to experimental data. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 161719	3.9	11
434	Long-Range Organization of Membrane-Curving Proteins. <i>ACS Central Science</i> , <b>2017</b> , 3, 1246-1253	16.8	18
433	Proton movement and coupling in the POT family of peptide transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 13182-13187	11.5	38
432	Immature HIV-1 lattice assembly dynamics are regulated by scaffolding from nucleic acid and the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E10056-E10065	11.5	40
431	Competition between Tropomyosin, Fimbrin, and ADF/Cofilin drives their sorting to distinct actin filament networks. <i>ELife</i> , <b>2017</b> , 6,	8.9	50
430	Acid activation mechanism of the influenza A M2 proton channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E6955-E6964	11.5	51

429	The Origin of Coupled Chloride and Proton Transport in a Cl/H Antiporter. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 14923-14930	16.4	29
428	Coarse-grained simulation reveals key features of HIV-1 capsid self-assembly. <i>Nature Communications</i> , <b>2016</b> , 7, 11568	17.4	85
427	Multiscale simulations reveal key features of the proton-pumping mechanism in cytochrome c oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7420-7425	11.5	37
426	Multiscale simulations of protein-facilitated membrane remodeling. <i>Journal of Structural Biology</i> , <b>2016</b> , 196, 57-63	3.4	13
425	The F-actin bundler $\alpha$ -actinin Ain1 is tailored for ring assembly and constriction during cytokinesis in fission yeast. <i>Molecular Biology of the Cell</i> , <b>2016</b> , 27, 1821-33	3.5	35
424	Role of Presolvation and Anharmonicity in Aqueous Phase Hydrated Proton Solvation and Transport. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 1793-804	3.4	51
423	Cations Stiffen Actin Filaments by Adhering a Key Structural Element to Adjacent Subunits. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 4558-67	3.4	25
422	Hydroxide Solvation and Transport in Anion Exchange Membranes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 991-1000	16.4	155
421	Proton Solvation and Transport in Realistic Proton Exchange Membrane Morphologies. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 3176-3186	3.8	33
420	Computationally Efficient Multiscale Reactive Molecular Dynamics to Describe Amino Acid Deprotonation in Proteins. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 879-91	6.4	32
419	Molecular modeling and assignment of IR spectra of the hydrated excess proton in isotopically dilute water. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 154504	3.9	17
418	Dynamic force matching: Construction of dynamic coarse-grained models with realistic short time dynamics and accurate long time dynamics. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 224107	3.9	23
417	Can quantum transition state theory be defined as an exact $t = 0+$ limit?. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 084110	3.9	5
416	On the representability problem and the physical meaning of coarse-grained models. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 044108	3.9	72
415	Multiscale Simulations Reveal Key Aspects of the Proton Transport Mechanism in the CLC-ec1 Antiporter. <i>Biophysical Journal</i> , <b>2016</b> , 110, 1334-45	2.9	37
414	Coupling Protein Dynamics with Proton Transport in Human Carbonic Anhydrase II. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 8389-404	3.4	21
413	A Direct Method for Incorporating Experimental Data into Multiscale Coarse-Grained Models. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 2144-53	6.4	22
412	Transition-Tempered Metadynamics Is a Promising Tool for Studying the Permeation of Drug-like Molecules through Membranes. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 5157-5169	6.4	33

411	Fascin- and $\beta$ -Actinin-Bundled Networks Contain Intrinsic Structural Features that Drive Protein Sorting. <i>Current Biology</i> , <b>2016</b> , 26, 2697-2706	6.3	58
410	How curvature-generating proteins build scaffolds on membrane nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 11226-11231	11.5	91
409	An analysis of hydrated proton diffusion in ab initio molecular dynamics. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 014104	3.9	50
408	Hydrated Proton Structure and Diffusion at Platinum Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 14675-14682	3.8	10
407	Predicting the Sensitivity of Multiscale Coarse-Grained Models to their Underlying Fine-Grained Model Parameters. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 3547-60	6.4	10
406	Designing free energy surfaces that match experimental data with metadynamics. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 2451-60	6.4	42
405	Propensity of Hydrated Excess Protons and Hydroxide Anions for the Air-Water Interface. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 12610-6	16.4	78
404	When Physics Takes Over: BAR Proteins and Membrane Curvature. <i>Trends in Cell Biology</i> , <b>2015</b> , 25, 780-792	18.3	183
403	Exploring Valleys without Climbing Every Peak: More Efficient and Forgiving Metabasin Metadynamics via Robust On-the-Fly Bias Domain Restriction. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 5638-50	6.4	23
402	Dynamic force matching: A method for constructing dynamical coarse-grained models with realistic time dependence. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 154104	3.9	64
401	Ion mixing, hydration, and transport in aqueous ionic systems. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 184905	3.9	13
400	A reductionist perspective on quantum statistical mechanics: Coarse-graining of path integrals. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 094104	3.9	7
399	The multiscale coarse-graining method. XI. Accurate interactions based on the centers of charge of coarse-grained sites. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 243116	3.9	24
398	Membrane tension controls the assembly of curvature-generating proteins. <i>Nature Communications</i> , <b>2015</b> , 6, 7219	17.4	119
397	Mesoscale Study of Proton Transport in Proton Exchange Membranes: Role of Morphology. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1753-1762	3.8	28
396	Ion Transport through Ultrathin Electrolyte under Applied Voltages. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 7516-21	3.4	12
395	Hydrated Excess Protons Can Create Their Own Water Wires. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 9212-8	3.4	60
394	Electrostatic interactions between the Bni1p Formin FH2 domain and actin influence actin filament nucleation. <i>Structure</i> , <b>2015</b> , 23, 68-79	5.2	12

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